ASSETS AT RISK & THE WILDLAND URBAN INTERFACE - WUI



The primary goal of wildland fire protection in the Butte Unit is to safeguard the wide range of assets found within the unit from the effects of wildfire. The wildland fire protection system was created and funded to protect both public and private assets at risk. The following have been identified and delineated as either economic or noneconomic assets at risk from wildfire: people,

structures, timber, watershed, wildlife, unique scenic and recreation areas, range, and air quality. The table below provides a description of the assets evaluated.

Asset at Risk	Public Issue Category	Location and ranking methodology		
Hydroelectric power	Public welfare	1) Area watersheds that feed water to hydroelectric power plants, ranked based on plant capacity; 2) cells adjacent to reservoir base plants (Low rank); and 3) cells containing canals and flumes (High rank).		
Fire-flood watersheds	Public safety And Public welfare	Watersheds with a history or the potential to develop problems as result of fire or floods are ranked based on affected downstream population.		
Soil erosion	Environment	Watersheds are ranked based on erosion potential.		
Water storage	Public welfare	Watershed areas up to 20 miles upstream from water storage facility, ranked based on water value and dead storage capacity of facility.		
Water supply	Public health	1) Watershed areas up to 20 miles upstream from water supply facility (High rank); 2) grid cells containing domestic water diversions, ranked based on number of connections; and 3) cells containing ditches that contribute to the water supply system (High rank).		
Scenic	Public welfare	Four mile viewshed around Scenic Highways and 1/4 mile viewshed around Wild and Scenic Rivers, ranked based on potential impacts to vegetation types (tree versus non-tree types)		
Timber	Public welfare	Timberlands ranked based on value/susceptibility to damage		

Page 23 7/26/2005

Range	Public welfare	Rangeland ranked based on potential replacement feed cost by region/owner/vegetation type	
Air quality	Public health, Environment And Public welfare	Potential damages to health, materials, vegetation, and visibility; ranked based on vegetation type and air basin	
Historic buildings	Public welfare	Historic buildings ranked based on fire susceptibility	
Recreation	Public welfare	Unique recreation areas or areas with potential damage to facilities, ranked based on fire susceptibility	
Structures	Public safety And Public welfare	Ranked based on housing density and fire susceptibility	
Non-game wildlife	Environment And Public welfare	Critical habitats and species locations based on input from California Department of Fish and Game and other stakeholders	
Game wildlife	Public welfare Environment	Critical habitats and species locations based on input from California Department of Fish and Game and other stakeholders	
Infrastructure	Public safety Public welfare	Infrastructure for delivery of emergency and other critical services (e.g. repeater sites, transmission lines)	
Ecosystem Health	Environment	Ranking based on vegetation type/fuel characteristics	

The assets at risk were evaluated to the 450 acre scale within the Butte Unit. The 450 acre scale, know as Quad 81st have been designated by the Department for purposes of manageability. This designation is based on the sectioning of a USGS 7.5 minute quadrangle map broken down into a 9x9 grid pattern; the result is squares of 450 acres. Fire plan assessments have been made at the Q81st level. For instance, each Q81st in Butte Unit has a ranking applied to it for Assets at Risk (AAR), Level of Service (LOS), and Fuel Hazard Ranking.

Fire protection resources are limited, primarily due to budget constraints. Therefore, these resources should be allocated, in part, based on the magnitude of the assets. The assets are ranked, high, medium and low, as to their susceptibility to wildfire. (For more information regarding the evaluation of asset susceptibility, refer to the California Fire Plan. http://www.fire.ca.gov/FireEmergencyResponse/FirePlan/FirePlan.asp The asset ranking is scaled to the Q81st and transferred to GIS maps. Map overlays will be evaluated by unit staff, and areas with the highest combined asset values and fire risk will be targeted for fire management activities. The scores for the various assets at risk where given a 1 (low) score out of a possible 9.999 (high) except for the following assets: game wildlife, historical buildings, and ecosystem health were all given scores of 0 as the data is not yet available or in different stages of validation at a state level. Infrastructure, non-game wildlife, and range scores were given a score of 2. Timber was given a 3 and structures were given a 5 (see priority areas in the Butte Unit fire plan). Many factors are involved in target area identification, including political climate of the region and suppression cost reductions.

Page 24 7/26/2005

The process of explicitly enumerating assets at risk also helps to identify who benefits from the protection afforded those assets. It is a premise of the California Fire Plan, from which this plan is structured, that those who benefit the most from the protection of an asset should pay the most for that protection.

STRUCTURAL IGNITABILITY AND HOME DEFENSE

Arguably one of society's most critical assets and one of the most difficult and costly for fire agencies to defend during a wildfire, homes and other structures are often lost because the materials used to construct them are not sufficient to resist firebrand ignition. During firestorms fires are often fanned by very strong winds creating a blizzard of embers which blow though the air. These embers often land in a receptive fuel bed, typically made up of fine dead fuels, which allow new fires to readily start; including fires on, under and near homes.

This fine dead fuel bed can include naturally occurring materials, such as needles and leaves that accumulate on, under and near your home, material stored on or near the home such as yard furniture or woodpiles, and some types of building materials. Building materials that lend themselves readily to "structural ignitability" include the obvious shake roof and the not so obvious deck material and interior support members in the attic or sub-floor space.

"Structural Ignitability" is a term now used commonly by the fire service, fire safe councils and the building industry to describe a structures susceptibility to catching fire during a wildland urban interface fire. This section aims to educate readers and stress the importance of "structural ignitability" **in addition to defensible space** when it comes to protecting structures from wildfire. It is not enough to have defensible space without giving careful thought and effort toward improving the homes resistance to structural ignitability.

Structural Ignitability Mitigation Strategies – The below table can be used by citizens, communities and governments to help identify the risks and mitigation measures that can be implemented to reduce the risk of structural ignitability to a home or community during a wildland urban interface fire.

While there are numerous factors which contribute to homes and communities being at risk to loss from wildfires, including hazardous fuel conditions, structural ignitability is arguably the most critical element to home survivability during a wildland urban interface fire. Many structural ignitability factors are easily mitigated with little time and expense to homeowners; while other building construction elements, such as wood shake roofing material, can require a significant investment on the part of property owners. Property owners must not downplay the risk caused by this type of construction, and determine the cost to benefit when making evaluations.

The goal of this section is to:

 To identify circumstances and factors which place the structure itself at risk from wildfire, and suggest appropriate mitigation measure(s) to reduce that risk. The mitigation measures can be evaluated and implemented by individual property owners,

Page 25 7/26/2005

communities, and local and state government. The resulting goal is to improve public safety, firefighter safety, reduce structure ignitability, and reduce damage to property and natural resources.

The objectives of this section are to:

- Identify risks and mitigation measures in terms of structural ignitability.
- Improve citizen knowledge regarding the risks of structural ignitability and empower property owners to implement mitigation measures to reduce their risk.
- Identify areas where collaborative efforts of local and state government can mitigate risks of structure ignitability through development standards, ordinances and codes.
- Support efforts of fire chiefs, local governments, county and community fire safe councils, the California Department of Forestry & Fire Protection (CDF), and other agencies to collaboratively implement mitigation measures and obtain funding assistance.

MITIGATION MEASURES BY FOCUS AREAS:

Focus areas are broken down into elements which contribute to the risk of homes and communities being lost to wildfire. A statement of the situation or issue has been presented, followed with a mitigation recommendation(s).

Item	Focus Area			
A.	Reducing Structure Ignitabili	ty		
	General Risk Condition:			
	(reference "A Homeowners G County" released by the Butte the structure and the first 10' that building materials, lands natural debris such as pine need around structures within the home survival. Case studies which are lost to wildland firest critical to home survivability, firest suppression resources that materials are sidence during a wildland firest to evaluate their home — instimmediately to improve the characteristics.	cions are within the home ignition zone uide to Fire Safe Landscaping in Butte County Fire Safe Council) which includes around the structure. Research shows scaping and landscape materials, and edles and leaves that accumulate on and me ignition zone play a significant role in have shown that over 80% of structures is have wood shake roofs. This zone is refighter safety and the affectiveness of any be providing structure protection to a ear. It is incumbent upon property owners ide and out — for fire safety and start ance of your home surviving. Do not wait not is too late. Consult your local fire for further assistance.		
A.1.	Existing structures & attachments - Strengthen building standards for construction, replacement activities, and enforcement of compliance for existing residences and properties to make them less prone to loss from a wildfire due to embers, radiated heat, or surface fire spread.			
Item	Risk Condition:	Mitigation Measures:		
A.1.a.	Roofing - Efforts should be	1) Educate resident on		

Page 26 7/26/2005

	made to eliminate all wood	importance of replacing wood
	shake roofs in Butte County.	shake roofs - Educational efforts
	Shake roofs are a leading	should be made to eliminate
	cause of home loss in	shake roofing.
	wildfires. Presently	2) Consider modifying county &
	homeowners in Butte County	city code measures which may
	are allowed to replace up to	include, but not be limited to:
	50% (as repair) of an existing	a) Limit replacement of shake
	roof per year. This has	roofs - It may be possible to stop
	allowed a continuation of	this practice by reducing
	wood shake roofs in the	replacement standards (e.g. from
	county.	50% to not exceed 10-15%).
	county.	b) "Reduced or No Fee"
	Decearsh show that hamas	,
	Research show that homes	permits for replacement of
	with non-combustible roofs	shake roofs - investigate a
	and clearance of at least 30-	"reduced or no fee" permit for
	60 feet have a 95% chance	residents that change from a
	of survival in a wildfire.	wood shake to a non-combustible
		roof.
	Currently county & city codes	c) Replacement of shake roofs
	do not allow wood shake roof	upon sale of a home - Expedite
	for new construction.	the elimination of wood shake
		roofs by requiring replacement
	Maintain 100' of defensible	roofs by requiring replacement upon sale.
	Maintain 100' of defensible space per PRC-4291.	· · · · · · · · · · · · · · · · · · ·
A.1.b.		· · · · · · · · · · · · · · · · · · ·
A.1.b.	space per PRC-4291. Vent openings - Screening	upon sale.
A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel	upon sale. 1) Educate resident on importance of steel vent
A.1.b.	vent openings - Screening of vent openings with steel screens, no large than 1/4 inch	upon sale. 1) Educate resident on
A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help	1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel
A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the	upon sale. 1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, ¼ inch mesh of all vent
A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the ember blizzard that comes	upon sale. 1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, ¼ inch mesh of all vent openings.
A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the ember blizzard that comes with a wildfire) from entering	1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, ¼ inch mesh of all vent openings. 2) Explore incentives for
A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the ember blizzard that comes with a wildfire) from entering into attics and crawl spaces.	1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, ¼ inch mesh of all vent openings. 2) Explore incentives for screening - Explore incentives
A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the ember blizzard that comes with a wildfire) from entering into attics and crawl spaces. Currently standards exist in	upon sale. 1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, ¼ inch mesh of all vent openings. 2) Explore incentives for screening - Explore incentives for homeowners to encourage
A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the ember blizzard that comes with a wildfire) from entering into attics and crawl spaces. Currently standards exist in the county and city for new	upon sale. 1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, 1/4 inch mesh of all vent openings. 2) Explore incentives for screening - Explore incentives for homeowners to encourage steel screening of vent openings.
A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the ember blizzard that comes with a wildfire) from entering into attics and crawl spaces. Currently standards exist in the county and city for new construction, but not older	upon sale. 1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, ¼ inch mesh of all vent openings. 2) Explore incentives for screening - Explore incentives for homeowners to encourage steel screening of vent openings. 3) Consider modifying county &
A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the ember blizzard that comes with a wildfire) from entering into attics and crawl spaces. Currently standards exist in the county and city for new	1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, ¼ inch mesh of all vent openings. 2) Explore incentives for screening - Explore incentives for homeowners to encourage steel screening of vent openings. 3) Consider modifying county & city code measures which may
A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the ember blizzard that comes with a wildfire) from entering into attics and crawl spaces. Currently standards exist in the county and city for new construction, but not older structures.	1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, ¼ inch mesh of all vent openings. 2) Explore incentives for screening - Explore incentives for homeowners to encourage steel screening of vent openings. 3) Consider modifying county & city code measures which may include, but not be limited to,
A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the ember blizzard that comes with a wildfire) from entering into attics and crawl spaces. Currently standards exist in the county and city for new construction, but not older structures. Maintain 100' of defensible	1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, ¼ inch mesh of all vent openings. 2) Explore incentives for screening - Explore incentives for homeowners to encourage steel screening of vent openings. 3) Consider modifying county & city code measures which may include, but not be limited to, requiring steel screening of
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A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the ember blizzard that comes with a wildfire) from entering into attics and crawl spaces. Currently standards exist in the county and city for new construction, but not older structures. Maintain 100' of defensible	1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, ¼ inch mesh of all vent openings. 2) Explore incentives for screening - Explore incentives for homeowners to encourage steel screening of vent openings. 3) Consider modifying county & city code measures which may include, but not be limited to, requiring steel screening of vent openings upon sale - Expedite the replacement by
A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the ember blizzard that comes with a wildfire) from entering into attics and crawl spaces. Currently standards exist in the county and city for new construction, but not older structures. Maintain 100' of defensible	1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, ¼ inch mesh of all vent openings. 2) Explore incentives for screening - Explore incentives for homeowners to encourage steel screening of vent openings. 3) Consider modifying county & city code measures which may include, but not be limited to, requiring steel screening of vent openings upon sale - Expedite the replacement by requiring steel vent screening with
	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the ember blizzard that comes with a wildfire) from entering into attics and crawl spaces. Currently standards exist in the county and city for new construction, but not older structures. Maintain 100' of defensible space per PRC-4291.	1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, ¼ inch mesh of all vent openings. 2) Explore incentives for screening - Explore incentives for homeowners to encourage steel screening of vent openings. 3) Consider modifying county & city code measures which may include, but not be limited to, requiring steel screening of vent openings upon sale - Expedite the replacement by requiring steel vent screening with maximum ¼ " mesh upon sale.
A.1.b.	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the ember blizzard that comes with a wildfire) from entering into attics and crawl spaces. Currently standards exist in the county and city for new construction, but not older structures. Maintain 100' of defensible space per PRC-4291.	1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, ¼ inch mesh of all vent openings. 2) Explore incentives for screening - Explore incentives for homeowners to encourage steel screening of vent openings. 3) Consider modifying county & city code measures which may include, but not be limited to, requiring steel screening of vent openings upon sale - Expedite the replacement by requiring steel vent screening with maximum ¼ " mesh upon sale. 1) Educate resident on
	space per PRC-4291. Vent openings - Screening of vent openings with steel screens, no large than ¼ inch mesh opening, will help prevent embers (during the ember blizzard that comes with a wildfire) from entering into attics and crawl spaces. Currently standards exist in the county and city for new construction, but not older structures. Maintain 100' of defensible space per PRC-4291.	1) Educate resident on importance of steel vent screening - Educational efforts should be made to insure steel screening, ¼ inch mesh of all vent openings. 2) Explore incentives for screening - Explore incentives for homeowners to encourage steel screening of vent openings. 3) Consider modifying county & city code measures which may include, but not be limited to, requiring steel screening of vent openings upon sale - Expedite the replacement by requiring steel vent screening with maximum ¼ " mesh upon sale.

	by PRC-4291, is fire resistant enough to withstand the short term heat load from a wildland fire. Then next greatest threat from decks is firefighter safety. Many new materials (synthetics) ignite more easily than wood and have a rapid structural collapse when subjected to high heat loads, creating a situation where firefighters could fall through. Currently no standard exists in local jurisdications.	for use of safe decking materials. 2) Consider modifying county & city code measures which may include, but not be limited to, prohibiting unsafe synthetic decking - Prohibit synthetic decking which has a significantly higher flammability, and significantly lower structural rating, than wood of comparable dimension.
	Maintain 100' of defensible space per PRC-4291.	
A.1.d.	Outbuildings - Structures (e.g. storage, wood & tool sheds) with less than 30-feet separation from the home place residences at a high risk of loss. Fire can easily spread from structure to structure due to direct flame contact, fire brand exposure, and/or prolonged radiant heat.	1) Educate residents on need for separation of heat loads - Efforts should be made to educate residents on the need to have separation of heat loads from their residence. Where lot size allows recommend 30' spacing between outbuildings and primary structures. 2) Enforce clearance requirements - Enforce clearing of at least 100 feet around
	Maintain 100' of defensible space per PRC-4291.	structures, a requirement of PRC 4291.
A.1.e.	Woodpiles - Woodpiles without adequate separation from homes and outbuildings often place these structures at a high risk of loss.	1) Educate residents on need for separation of heat loads - Efforts should be made to educate residents on the need to keep woodpiles away from structures a distance of 2 times
	Maintain 100' of defensible space per PRC-4291.	the height of the pile, or more if lot size allows.
A.1.f.	Propane tanks - Tanks with less than 10 feet of clearance around the tank and 30' separation from structures place homes at an increased risk of loss.	1) Educate residents on need for separation of heat loads - Efforts should be made to educate residents to remove any flammable materials within 10 feet of the tank, and if possible

		position the tank at least 30 feet
	Maintain 100' of defensible space per PRC-4291.	from structures.
A.1.g.	Immediate structure landscaping - (0-10') Certain landscaping (vegetation), such as junipers, landscape materials (bark), and other fine, readily ignitable natural materials such as pine needles and leaves that accumulate on and around structures significantly increase a home's susceptibility to ignition. This area should consist of nonflammable landscape materials and green, succulent vegetation which resists ignition from fire brands. Maintain 100' of defensible space per PRC-4291.	1) Information and education on fire safe landscaping - Continue to provide information and education to residents on creating fire resistant landscaping adjacent to structures, and keeping structures free of fine, readily ignitable natural materials such as pine needles and leaves that accumulate on and around structures. Emphasis should be on maintaining the home ignition zone (the home plus the first 10 feet around the home) free of readily ignitable fine fuel that will readily accept ignition from firebrands (embers) and perpetuate the lateral spread of fire. 2) Explore incentives for fire safe landscaping - Explore incentives for homeowners to make firesafe landscapes adjacent to homes.

Page 29 7/26/2005

The following communities in Butte County and Plumas Counties are listed on the National Registry. See the following site http://www.firesafecouncil.org/fpcommunities.html
An F in the Federal Threat column indicates some or all of the wildland fire threat to that community comes from federal (e.g., US Forest Service, BLM, Dept. of Defense, etc) lands. The Hazard Level code indicates the fire threat level, where 2 denotes moderate threat, and 3 denotes high threat. There are a total of 1,238 communities listed, of which 843 have fire threats from federal lands.

FIRE THREATENED COMMUNITIES IN BUTTE COUNTY

<u>No.</u>	Community Name	Federal Threat	Hazard Level
62	Bangor		3
90	Berry Creek	F	3
156	Butte Creek	F	3
157	Butte Meadows	F	3
211	Centerville	F	3
215	Cherokee	F	3
220	Chico	F	3
240	Cohasset	F	3
251	Concow	F	3
367	Feather Falls	F	3
385	Forest Ranch	F	3
519	Inskip	F	2
539	Jonesville	F	3
669	Magalia	F	3
815	Oroville	F	3
816	Oroville East	F	3
823	Palermo	F	3
832	Paradise	F	3
847	Pentz	F	3
941	Robinson Mills	F	3
1058	South Oroville	F	3
1078	Stirling City	F	3
1113	Thermalito		3

Page 30 7/26/2005

FIRE THREATENED COMMUNITIES IN PLUMAS COUNTY

Plumas				Estimated	Density
County			Estimated	Area	(people/sq.
	Community ¹	On Draft List ²	Population ³	(sq. mi.) ⁴	mi.)
1	Beckwourth	No	100	2.00	50
2	Belden	No	15	0.25	60
3	Blairsden	No	200	0.50	400
4	Bucks Lake	No	50	2.00	25
5	Canyon Dam	No	100	0.50	200
6	Caribou	No	25	0.50	50
7	Chester	Yes	2000	1.50	1333
8	Clio	No	200	0.50	400
9	Cresent Mills	No	100	0.50	200
10	Cromberg	No	200	1.00	200
11	Delleker	No	75	0.50	150
12	East Quincy	Yes	2000	2.00	1000
13	Genesee	No	20	0.25	80
14	Graegle	No	300	1.00	300
15	Greenville	Yes	1500	2.00	750
16	Hamilton Branch	No	200	1.00	200
17	Indian Falls	No	20	0.25	80
18	Johnsville	No	50	0.25	200
19	LaPorte	No	150	2.00	75
20	Meadow Valley	No	500	1.00	500
21	Mohawk	No	100	0.50	200
22	Paxton	No	20	0.20	100
23	Portola	Yes	4000	2.00	2000
24	Pratville	No	50	0.50	100
25	Quincy	Yes	2000	1.50	1333
26	Seneca	No	100	1.00	100
27	Taylorsville	No	200	0.10	2000
28	Twain	No	15	0.10	150

F	Flumas County Communities recommended but not currently listed						
Plumas				Estimated	Density		
County		On Draft	Estimated	Area	(people/sq.		
	Community ¹	List ²	Population ³	(sq. mi.) ⁴	mi.)		
1	Chicoot	No	70	0.50	140		
2	C-Road	No	100	1.00	100		
3	Gold Mountain	No	200	2.00	100		
4	Gold Ridge	No	50	1.00	50		
5	Greenhorn	No	200	2.00	100		
6	Lake Almanor	No	200	0.50	400		
7	Lake Almanor West	No	200	1.00	200		

Page 31 7/26/2005

8	Little Grass Valley	No	100	1.50	67
9	Plumas Eureka	No	100	0.50	200
10	Rich Bar	No	10	0.20	50
11	Sloat	No	100	0.50	200
12	Spring Garden	No	50	0.50	100
13	Storrie	No	10	0.10	100
14	Tobin	No	10	0.10	100
15	Whitehawk	No	200	2.00	100

The following maps display the wildland urban interface problem within Butte and Plumas Counties.

The "Total Assets at Risk" map uses an aggregate score for all assets at risk based on assigned weights for each category. The assets at risk include: hydroelectric power, watersheds, soil erosion, water storage and supply, scenic, timber, range, air quality, historic buildings, recreation, structures, non-game wildlife, infrastructure and ecosystem health. The analysis shows concentrations of medium to high risk areas in the communities of Cohasset, Forest Ranch, Paradise, Paradise Pines, Butte Meadows, Pulga, Yankee Hill, Concow, Kelly Ridge (East Oroville), Palermo, Berry Creek, Robinson Mill, Feather Falls and Bangor. Several communities in Plumas County also are shown as a medium to high risk including many of those along the Highway 70 corridor from Tobin to Portola (Belden, Quincy, Cromberg, Blairsden & Portola) as well as Graegle, Meadow Valley, Bucks Lake, and LaPorte to name a few.

The following table represents the weights (1-5) applied to each asset as used to compute the overall Asset Rank within the Butte Unit (Butte & Plumas Counties).

<u>Asset</u>	Weight	<u>Asset</u>	<u>Weight</u>	<u>Asset</u>	<u>Weight</u>
Infrastructure	3	Timber	3	Storage (Water)	3
Water Supply	4	Range	1	Fire-Flood	2
Historic	2	Soil	1	Air	4
Scenic	2	Hydroelectric	3	Recreation	2
Housing	5	Non-game Wildlife	1	Game (Wildlife)	1
Ecosystem	3				

From the "Population Density" and "Wildland Urban Interface Population Areas" maps, large concentrations of people have been identified in the Chico, Paradise, Paradise Pines, and east and south Oroville areas of Butte County, and the Quincy, Greenville, Beckwourth and Graegle areas of Plumas County. The density is based upon census block information from the 2000 census. Census blocks are not geographically similar in size; however the severity of the urban interface problem can be inferred from the population density and hence housing density. Two thousand census data indicates that the average number of residents per household is 2.48 and 2.29 for Butte and Plumas Counties respectively.

Page 32 7/26/2005



